

DUNAYEV, P. A. Doc Tech Sci -- (diss) "Author's abstract of dissertation on the subject of "Analytical calculation of parameters of pneumatic hammers" in competition for the Academic Degree of Doc ~~ma~~ Tech Sci." Chelyabinsk, 1957.

22 pp 20 cm. (Min of Higher Education USSR. Ural Polytechnic Inst in S.M. Kirov),
100 copies (KL, 14-57, 86)

SOV/137. 59-3-6930

Translation from: Referativnyy zhurnal. Metallurgiya, 1959, Nr 3, p 287 (USSR)

AUTHOR: Dunayev, P. A.

TITLE: Basic Trends in the Development of Production of Forging and Stamping Equipment (Osnovnyye napravleniya v razvitiі proizvodstva kuznechno-shtampovogochnogo oborudovaniya)

PERIODICAL: V sb.: Chelyabinsk. kuznetsy v borbe za tekhn. progress
Chelyabinsk, 1958, pp 3-13

ABSTRACT: It is pointed out, on the strength of an analysis of the efficiency and the effective power of various types of forging-stamping machines, that the basic trends in the development of their production will be dictated by the power class and by the type of a machine belonging to some particular power class, due allowances being made for potential mechanization and automation of technological processes. Various types of machines that should be manufactured are enumerated in accordance with their power class, and data on the relative amounts (in %) of machines of each classification produced in the sixth five-year-plan period are presented. The need for the modernization of the forging-pressing machines is emphasized. M. Ts.

Card 1/1

SOV/137-59-1-1726

Translation from: Referativnyy zhurnal. Metallurgiya, 1959, Nr 1, p 227 (USSR)

AUTHOR: Dunayev, P. A.

TITLE: On the Computation of the Parameters of Pneumatic Drop Hammers
(K raschetu parametrov pnevmaticheskikh molotov)

PERIODICAL: Sb. statey. Chelyab. politekhn. in-t, 1958, Nr 8, pp 5-21

ABSTRACT: The author presents the computation and the formulae employed in the determination of the basic parameters of pneumatic drop hammers, namely, the angular velocity of the crankshaft, the area of the piston and the diameter of the cylinder of the hammer head, the radius of the crankshaft, the area of the piston and, the diameter of the compressor cylinder, the initial volumes within the cylinders of the drop hammer, and the volume of the shock-absorbing zone. An example of the computation is discussed.

M. Ts.

Card 1/1

SOV/137-59-1-1729

Translation from: Referativnyy zhurnal. Metallurgiya, 1959, Nr 1, p 228 (USSR)

AUTHOR: Dunayev, P. A.

TITLE: On the Determination of the Torque Acting on the Shaft of a Hot-stamping Crankshaft-type Press (K opredeleniyu krutyashchego momenta na valu krivoshipnogo goryacheshtampovogo pressa)

PERIODICAL: Sb. statey. Chelyab. politekhn. in-t, 1958, Nr 8, pp 22-31

ABSTRACT: The computational procedure and the formula employed in the determination of the reduced arm of a torsional moment acting on the shaft of the press are presented. The reduced arm of the torque is calculated with due consideration of the friction in the supporting journals and along the guides of the crosshead, the eccentricity in the loading of the crosshead, and the reactions at the bearing supports. An example illustrating these computations for a 1600-ton press is given.

M. Ts.

Card 1/1

25(2)

PHASE I BOOK EXPLOITATION

SOV/2576

Dunayev, Petr Aleksandrovich

Pnevmaticheskiye moloty (Pneumatic Hammers) Moscow, Mashgiz, 1959. 190 p.
Errata slip inserted. 5,200 copies printed.

Reviewers: A.I. Zimin, Professor, and S.A. Podrez, Engineer; Eds.: G.I. Meylakh, Engineer, and I.V. Fomichev, Engineer; Tech. Ed.: N.A. Dugina; Exec. Ed. (Ural-Siberian Division, Mashgiz): T.M. Somova, Engineer.

PURPOSE: This book is intended for designers of pneumatic forging and stamping hammers, and for production engineers in forging and pressing shops. The book may also be useful to students in technical colleges (vtuzy).

COVERAGE: Theory for calculating pneumatic hammers is presented along with equations for determining favorable hammer parameters. The author analyzes Soviet-produced hammer performance and gives an experimental determination of the coefficient of power losses from friction developed by the ram in pneumatic hammers.

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Pneumatic Hammers

807/2576

Professor Ya. N. Markovich and Ye.P. Unkov are mentioned as contributors to the field of hammer calculations. There are 13 references, all Soviet.

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Pneumatic Hammers

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AVAILABLE: Library of Congress	

Card 6/6

GO/gap
12-9-59

DUNAYEV, Petr Aleksandrovich; RAYTSER, Veniamin Borisovich; ALEKSEYEV, G.P.,
red.; BUSHUYEV, N.M., kand.tekhn.nauk, red.; GUTMAN, I.M., inzh.,
red.; KUZ'MOV, N.T., inzh., red.; IGUMENOV, M.G., agronom, red.;
PICHAK, P.I., kand.tekhn.nauk, red.; POLKANOV, I.P., kand.tekhn.
nauk, red.; MARCHENKOV, I.A., tekhn.red.

[Forging in the repair of agricultural machinery] Kusachnoe delo
v remonte sel'skokhoziaistvennoi tekhniki. Izd.2. Moskva, Gos.
nauchno-tekhn.isd-vo mashinostroit.lit-ry, 1960. 158 p.

(MIRA 14:1)

(Forging) (Agricultural machinery--Maintenance and repair)

KATKOV, Nikolay Pavlovich; BASSEIN, Vladimir Vasil'yevich; KATKOV, Mikhail Pavlovich; KUDRYAVTSEV, Nikolay Aleksandrovich; MYSHKOVSKIY, V.A., insh., retsensent; SLOBTSOV, V.Ye., insh., retsensent; OLEV, S.M., insh., retsensent; DUNAYEV, P.A., red.; YERMAKOV, N.P., tekhn. red.

[Mechanisation of auxiliary operations in forging; an album of drawings] Mekhanizatsiya protsessov gorilachei shtampovki; al'bom chertezhei. Pod red. P.A.Dunaeva. Moskva, Mashgis, 1963. 111 l. (MIRA 16:8)
(Forging--Equipment and supplies)

DUNAYEV, P.F., kand.tekhn.nauk; KUBAREV, A.I., inzh.

Methods for calculating dimension diagrams having the α_i and K_i
coefficients given by two limiting values. Vest.mash. 41 no.9:
33-37 S '61. (MIRA 1419)

(Mechanical engineering)

DUNAYEV, P. F.

Method of calculation of rational tolerances, Stan. 1 instr. 23, No 6, 1962.

LOKTEV, D.A. inshener; BARSOV, A.I., inshener, retsensent; KORSOV, L.A.,
inshener, retsensent; DUMAYEV, P.F., inshener, redaktor; BRYZHEV'-
MAN, R.D., inshener; redaktor literatury po metalloobrabotke i
stankostroyeniyu; TUKHONOV, A.Ya., tekhnicheskiy redaktor; POPO-
VA, S.M., tekhnicheskikh redaktor.

[Metal-cutting machines for toolmaking] Metalloreshushohie stanki
dlya proizvodstva instrumenta. Moskva, Gos. nauchno-tekhn. izd-vo
mashinostroit. lit-ry, 1953. 303 p. [Microfilm] (MLRA 7:10)
(Machine tools)

CHECHEVITSKIY, V.Ye.; VOLOSHIN, A.M.; VYERIN, P.G., inzhener, retsenzent;
DUNAYEV, P.F., inzhener, redakter.

[Work on coordinated boring machines] Rabota na koordinatno-rustech-
nykh stankakh. Moskva, Gos. nauchno-tekhn. izd-vo mashinostroit. i
sudostroit. lit-ry, 1954. 142p. (MIRA 7:7)
(Drilling and boring machinery)

DUNAYEV, I. F.

Dissertation: "Substantiation of the Methods for Calculating Dimensions Chains." Cand
Tech Sci, Moscow Machine Tool and Tool Inst imeni I. V. Stalin, 21 Apr 54. (Vechernyaya
Moskva, Moscow, 12 Apr 54)

SO: SUM 243, 19 Oct 1954

DUMAYEV, P.F.; GOLOMIDOV, N.I.

Requirements of assembly technology for machine tool construction.

Stan.i instr. 25 no.4:18-22 Ap '54.

(MIRA 7:6)

(Machine-tool industry)

DAVIDOVSKIY, A.S.; DUNAYEV, P.F.; GOKUN, V.B., kandidat tekhnicheskikh nauk, retsentsent; SIANKOVICH, V.G., inzhener, redaktor; MATVEYEVA, Ye.N., tekhnicheskii redaktor; TIKHONOV, A.Ya., tekhnicheskii redaktor.

[Technology of constructing machine tools] Tekhnologichnost' konstrukt-
tsii stankov. Moskva, Gos.nauchno-tekhn. issledovaniya mashinostroitel'noi
lit-ry, 1955. 314 p. (MLA 8:6)
(Machine tools)

DUNAYEV, P.F., kandidat tekhnicheskikh nauk

Calculation of errors in kinematic links. Vest.mash.35 no.8:15-
17 Ag'55. (MLRA 8:10)

(Machinery, Kinematics of)

~~DUMAYEV~~, ~~Fyotr Fedorovich~~, kandidat tekhnicheskikh nauk; POLESCHENKO, P.V.,
kandidat tekhnicheskikh nauk, retsenzent; PROVIN, B.A., kandidat
tekhnicheskikh nauk, redaktor; SHENSHURINA, Ye.A., redaktor
izdatel'stva; TIKHONOV, A.Ye., tekhnicheskij redaktor

[Tree dimensional links] Razmerye tsepi. Moskva, Gos. nauchno-
tekhn. izd-vo mashinostroit. lit-ry, 1957. 286 p. (MLRA 10:6)
(Links and link-motion)

DUNAYEV, P. F. (Docent., Cand. Tech. Sci.)

"Methods and Significance of Dimensional- and Technological Analysis of Machine Parts During Their Construction Process." p. 80 in book Modern Trends in the Field of Machine Building Technology; Collection of Articles Moscow, Mashgiz, 1957. 363pp.

The author discusses aspects of dimensional and technological analysis of machine piece parts in relation to the machine as a whole and as a part of assemblies and mechanisms and as a part of independent machine elements. There are 9 Soviet references.

DUNAYEV, P. F.

23(2)

NOTICE TO THE PUBLIC

6075/1209

Технически машини-инструменти, апарати за измервания и измервателни
 групи и технически измервателни (New Trends in Machinery Manufacture) Moscow,
 Russia, 1979. 288 p. (Series: New Trends, pp. 2) British slip inserted.
 5,500 copies printed.

Additional Symmetric Agencies: **NSA, Secret Ministry, Executive Standard and**
International Trade Review.

Ed. (Title page): G.J. Koz'ma, Doctor of Technical Sciences, Professor; M. (Zhukovskiy Inst.): L.B. Preiberg; Sub. Ed.: A.P. Pivovarov; Managing Ed. for Lecturers on Machine Building and Instrument Construction: B.V. Pivovarov; Moscow.

NOTE: This collection of articles is intended for the technical personnel of machine-building plants, design and construction bureaus, and scientific research organizations devoted to machine building. It may also be useful to the engineers and students in the machine-building colleges and technical schools.

Summary: This is the first edition of the Transactions of the Institution of Mechanical Engineers (the I.M.E.), the oldest and largest of the engineering societies in the world. It contains the papers read at the annual meeting of the Institution, which was held in London in 1907-8. The papers cover a wide range of subjects, including the design and construction of machines, the theory of machines, the properties of materials, and the theory of fluids. The papers are arranged in four sections: the first section contains papers on the design and construction of machines; the second section contains papers on the theory of machines; the third section contains papers on the properties of materials; and the fourth section contains papers on the theory of fluids. The papers are written by leading engineers and scientists of the day, and are of high quality. The book is a valuable reference work for engineers and scientists alike.

McGOWAN, L.P., Engineer, and V.L. McGOWAN, Engineer.
The McGowan No. 1 Semi-Flowing Machine for Making Shell Corros

byman, S.I., Candidate of Technical Sciences, and
I.S. Slawny, Engineer. Progressive Techniques in the
Production of Blanks for Spinning Rings

Department, B.I., Candidate of Technical Sciences.
Technique of setting threads for screw pumps

DAWLEY, P. *Ph.D. Candidate of Technical Sciences.*
Dimensional Analysis of Ruffled Cylinders for Cotton Spinning
 Moscow

Des Moines, I. O., Regiment. Experiment in Being Platoon Built
from Standard Parts

Wanda, D.K., and V.J. Loggner, Engineers. Automatic Machines
for Augmentation of Needle Production

**University, M.B., Candidate of Technical Sciences.
Self-resistant Alloys Used in Sewer and Mud Pumps**

Doi, V.V., Candidate of Technical Sciences, and A.V. Voronin, Engineer. On Problem of Deformation of Rings With Loose Curvature

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GALKIN, Viktor Dmitriyevich; OBIDAROV, Vasilii Nikolayevich; MEZIVETSKIY, Ya.P., inzh., retsentsent; DUMAYEV, P.F., kand.tekhn.nauk, red.; MOROZOVA, M.N., red.isd-va; DOBRITSINA, R.I., tekhn.red.; GOR-
DNEVA, L.P., tekhn.red.

[Effective dimensioning and indication of tolerances in mechanical drawings] Ratsional'naya postanovka razmerov i dopuskov na cherteshakh. Moskva, Gos.nauchno-tekhn.isd-vo mashinostroit. lit-ry, 1960. 150 p. (MIRA 13:7)

(Mechanical drawing)

DUNAYEV, P.F., kand. tekhn. nauk; POLESCHENKO, P.V., kand. tekhn.
nauk, retsentsent; TOLAP, V.B., inzh., red.; SEMENCHENKO,
V.A., red.isd-va; MODEL', B.I., tekhn. red.

[Dimension diagrams] Razmernye tsopi. Isd.2., dop. 1 perer.
Moskva, Mashgis, 1963. 306 p. (MIRA 16:12)
(Machinery—Design and construction)
(Dimensional analysis)

DUMAYEV, F.N.; KALININ, V.M.; DRUZHININ, V.V.

Longitudinal and transverse magnetostriction of iron-silicon
steels. Fiz. met. i metalloved. 15 no.5:652-657 My '63.
(MIRA 16:8)

1. Ural'skiy gosudarstvennyy universitet im. Gor'kogo i
Verkh-Isetskiy metallurgicheskiy zavod.

(Iron-silicon alloys—Magnetic properties)

DUNAYEV, E.F., kand.tekhn.nauk; KOLOMEYETS, A.N.

Calculating joints with a guaranteed tightness taking into consideration
the dispersion of shaft and hole dimensions. Vest.mashinostr.
43 no.4:31-34 Ap '63. (MIRA 16:4)

(Fastenings)

DUNAYEV, P.F., kand. tekhn. nauk

Use of clutch couplings and the requirements of the precision
of relative position of units. Standartizatsiia 28 no.8:17-22
Ag '64. (MIRA 17:11)

DUNAYEV, P.F., kand. tekhn. nauk

Precision calculation of fluid-friction sliding bearings.

Izv. vys. ucheb. zav.; mashinostr. no.9:67-74 '65.

(MIRA 18:11)

DUMAYEV, P.T.

Boiler water quality control. Sakh.prom.29 no.6:13-15 '55.
(MIRA 9:1)

1.Gruppevaya laboratoriya Kurskogo sakhsveklotresta.
(Feed water) (Ion exchange)

DUNAYEV, P. T.

USSR /Chemical Technology. Chemical Products
and Their Application
Water treatment. Sewage water.

H-5

Abs Jour: Referat Zhur - Khimiya, No 1, 1958, 1638

Author : Dunayev P.T., Dugarova Ye. I.

Title : Plant Control of Boiler-Feed Water

Orig Pub: Sakharnaya prom-st', 1957, No 1, 48-50

Abstract: It is recommended to use a H-cathionite laboratory filter in conducting the water analyses, especially if the water has a high carbonate alkalinity.

Card 1/1

DUNAYEV, P.F.

Scale in steam boilers. Sakh. prom. 31 no.5:46-52 My '57.

(Boilers--Incrustations)

(MIRA 10:6)

DUNAYEV, P. T.

91-58-5-7/35

AUTHORS: Dunayev, P.T., Engineer, and Dugareva, Ye.I., Technician

TITLE: The Ionizing of Water in Sugar Refineries With Sodium and Ammonium Cations (Osushchestvleniye natriy-ammoniykationirovaniya vody na sakharnykh zavodakh)

PERIODICAL: Energetik, 1958, Nr 5, pp 10-13 (USSR)

ABSTRACT: Experiments were made in ionizing the water in sugar refineries by means of a cation filter of 2 m in diameter. Before the experiments, the filter was regenerated by table salt using 60 kg of salt to 1 m³ of sulfocarbon. The ammonium sulfate was dissolved and then piped to a pressure tank with a capacity of 6 m³. From this tank a 2.5% solution of ammonium sulfate was piped into the filter. In this ammonium sulfate, calcined soda was also dissolved at a ratio of 300 g per 100 kg. The pH in the experiments was 7.2. The residual sodium alkalinity was determined by methyl-orange as indicator. The residual sodium-alkalinity is understood to be that part of the alkalinity of the cationized water after interaction of the non-carbonate salts of ammonium. In the table, the

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91-58-5-7/35

The Ionizing of Water in Sugar Refineries With Sodium and Ammonium Cations

factor of the efficient use of the ammonium sulfate is represented in percentage, as well as the results of the regeneration of the cation filter by a 2.5% ammonium sulfate solution. It is shown that a 100% regeneration is obtained by first using table salt and then ammonium sulfate. In some sugar refineries, a 50% solution of table salt is brought into the filter and then a 25% solution of ammonium sulfate is twice introduced. This method still further reduces the alkalinity of the water. There is 1 figure and 1 table.

AVAILABLE: Library of Congress

Card 2/2 1. Water - Ionization

DONAYEV, P.T.; DUGAROVA, Ye.I.

Ammonium zeolite softening combined with sodium zeolite softening
of water. Sakh. prem. 32 no.11:35-39 N '58. (MIRA 11:12)

1.Guppevaya laboratoriya Kurskego sevnarkhosa.
(Water purification) (Ion exchange)

DUMAYEV, P.T.

Electromagnetic, ultrasonic and boiler treatment of water. Sakh.
prom. 34 no.7:50-54 J1 '60. (MIRA 13:7)

1. Gruppovaya laboratoriya Kurskogo sovnarkhosa.
(Feed-water purification)

DUNAYEV, P. V.

DUNAYEV, P. V. --"Comparative Histological and Experimental Investigations of the Age of Humans." * (Dissertations for Degrees in Science and Engineering Defended at USSR Higher Educational Institutions) Min of Hygiene USSR, Acad Med Sci USSR, Chkalov, 1954

SO: Knizhnaya Latoniya, No. 25, 18 Jun 55

* For Degree of Candidate in Biological Sciences

DUMAYEV, P.V. (Orenburg, Sovetskaya ul., 2, kv.11)

Conversion of the tissues of the meibomian glands and tarsal palpebrae in cultures in the organism. Arkh. anat. gist. i embr. 40 no. 1:47-51 Ja '61.

(MIRA 14:8)

1. Kafedra gistologii i embriologii (zav. - prof. Z.S. Knyustova, nauchnyy rukovoditel' - chlen-korrespondent AMN SSSR prof. F.M. Lazarenko [deceased]) Orenburgskogo meditsinskogo instituta.
(SEBACEOUS GLAND--TRANSPLANTATION) (EYELIDS--TRANSPALANATION)
(TISSUE CULTURE)

UDOVIN, G.M., prof., otv. red.; PERVUKHIN, V.Yu., dots., red.;
KHLYSTOVA, Z.S., prof., red.; DUNAYEV, P.V., dots.,
red.; KUZyakINA, A.P., dots., red.

[Materials of the Histological Conference on the Problem
"Reactivity and Plasticity of the Epithelium and Con-
nective Tissue Under Normal Experimental and Pathological
Conditions" dedicated to the memory of Professor F.M.
Lazarenko, corresponding member of the Academy of Medical
Sciences of the U.S.S.R.] Materialy Gistologicheskoi konfo-
rentsii po probleme "Reaktivnost' i plastichnost' epiteliia
i soedinitel'noi tkani v normal'nykh, eksperimental'nykh i
patologicheskikh usloviakh," posviashchennaya pamyati chlena-
korrespondenta AMN SSSR professora F.M.Lazarenko. Orenburg,
Orenburgskii sel'khoz. in-t, 1962. 165 p. (MIRA 17:8)

1. Gistologicheskaya konferentsiya po probleme "Reaktivnost'
i plastichnost' epiteliya i soedinitel'noy tkani v normal'-
nykh, eksperimental'nykh i patologicheskikh usloviyakh,"
posvyashchennaya pamyati chlena-korrespondenta AMN SSSR pro-
fessora F.M.Lazarenko. Orenburg, 1960. 2. Orenburgskiy sel'skokho-
zyaystvennyy institut (for Udovin, Kuzyakina). 3. Orenburgskiy
meditsinskiy institut (for Khlystova, Dunayev).

DUNAYEV, P.V. (Orenburg, prospekt Maksima Gor'kogo, 45, kv.6)

Cultivation of the thyroid gland in the organism under different hormonal conditions. Arkhiv.anat., gist.i embr. 43 no. 9:46-51 S '62. (MIRA 17:9)

1. Kafedra gistologii i embriologii (zav. - prof. Z.S.Khlystova) Orenburgskogo meditsinskogo instituta.

DUNAYEV, P.V. (Orenburg, 14, ul. Gor'kogo, 45, kv. 6)

Radioautographic study of the thyroid gland cultured by the F.M. Lazarenko method. Arkh. anat., gist. i embr. 45 no. 10:40-43
0 '63. (MIRA 17:9)

1. Kafedra gistologii i embriologii (zav. - prof. Z.S.Khlystova)
Orenburgskogo meditsinskogo instituta i laboratoriya eksperimental'noy
gistologii (zav. - prof. V.P. Mikhaylov) Instituta eksperimental'noy
meditsiny AMN SSSR, Leningrad.

ROSHAL', M.Ye., kand.med.nauk; ALIYEV, K.O.; BOGDANOVA, V.I.; ~~DUNAYEV, R.~~
student

Phlegmon of the cecum associated with a tumor of the hepatic
angle of the large intestine. Khirurgiia 37 no.3:110-111 Mr
'61. (MIRA 14:3)

1. Iz kafedry fakul'tetskoy khirurgii (sav. - prof. M.A.
Topchibashev) Azerbaydzhanskogo meditsinskogo instituta i
khirurgicheskogo otdeleniya pol'nitsy imeni Shaumyana
(glavnyy vrach Sh.S. Kasimov).
(COLON (ANATOMY)---TUMORS) (CECUM---DISEASES)
(PHLEGMON)

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S/058/60/000/010/009/014
A001/A001

Translation from: Referativnyy zhurnal, Fizika, 1960, No. 10, p. 311, # 27434

AUTHORS: Afonskaya, M.N., Gabyshev, V.S., Dunayev, S.A., Zusmanovskiy, S.A.,
Lyubimov, M.L., Mishkin, A.O., Shohelkunov, G.P.

TITLE: Twenty Megawatt Klystron Amplifier for 10-cm Band

PERIODICAL: Tr. Konferentsii po elektronike SVCh, 1957, Moscow-Leningrad, Gosenergoizdat, 1959, pp. 58 - 79

TEXT: The authors describe a 20-Mw pulse amplifying klystron of KNY -1 (KIU-1) type operating on the 10-cm band. The design of a klystron constructed earlier in the USA was adopted as a basis for development. Drawbacks of the American klystron are described in detail. Essential changes were made in the method of fixing the cathode shank, in the design of the electron gun and resonators, as well as in the adjustment of the focusing system. These changes made it possible to increase the coefficient of current transmission up to 96-98% and the electric strength between the anode and the cathode, and to eliminate sparking in

Card 1/2

88700

S/058/60/000/010/009/014
A001/A001

Twenty Megawatt Klystron Amplifier for 10-cm Band

resonators. The changes mentioned made it possible to construct a device considerably excelling the klystron built in the USA in efficiency, operational reliability, service life, and other characteristics. The detailed description of the KIU-1 klystron and its individual assemblies is given.

O.P. Germanovich

Translator's note: This is the full translation of the original Russian abstract.

Card 2/2

9, 4220 (2503, 3203, 1071)

87440
S/112/60/000/024/002/003
A005/A001

Translation from: Referativnyy zhurnal, Elektrotehnika, 1960, No. 24, p. 7,
5.11913

AUTHORS: Afonskaya, M.N., Gabyshev, V.G., Dunayev, S.A., Zusmanovskiy, S.A.,
Lyubimov, M.L., Mishkin, A.G., Shchepkunov, O.P.

TITLE: Klystron Amplifier for the 10-cm-Range of 20 Mw Output per Pulse

PERIODICAL: Tr. Konferentsii po elektronike SVCh, 1957, Moscow-Leningrad, Gosenergoizdat, 1959, pp. 58-79

TEXT: A pulse klystron with constant pumping out was developed. The dismountable design makes it possible to replace quickly the cathode in case of failure. The klystron optics ensures a current passage of 96-98%. The contactless capacitive re-tuning of the klystron makes it possible to attain continuity and absence of sparking. A lead sheath protects from the hard X-ray radiation which is caused by the electrons accelerated by the pulse voltage of 200 kv. There are 4 references.
R.V.B.

Translator's note: This is the full translation of the original Russian abstract.
Card 1/1

(ENGR.)

"Perevozka zhidkogo kisloroda na dal'nie rasstoyaniya" (Long-distant transportation of liquid oxygen), Kislorod, No. 1, 1946, pp.33-39.

DUNAYEV, S.E. and DROBININ, I.M.

"Plunger pump for liquid oxygen," USSR Patent No. 68,921, July 21, 1947.

See Chem. Abstracts, Vol. 43, 1949, p. 60101.

DUNAYEV, S.E. (APPEARS IN BIRLTO AS DUNSEV)

"Pumps for low temperature liquids", by I.N. Dubinin and S.E. Dunsev, ~~Mos~~

Mash 8, pp 11-12, 1949

B-76875

DUNAYEV, S.S. and DROBININ, I.N.

"Dvukhstupenchatyi nasos vysokogo davleniya dlya zhidkogo kisloroda"
(Two-stage high-pressure pump for liquid oxygen), Kislorod, No. 4,
1947, pp. 39-45.

DUNAYEV, V.A.

New finds of datolite associated with skarns in the Urals. Trudy
Gor.-geol. inst. UFAN SSSR no.34:63-66:58. (MIRA 14:10)
(Ural Mountains--Datolite)

DUMAYEV, V.A.; OVCHINNIKOV, L.N., doktor geol.-min.nauk, otv.red.

[Mineralogy and petrography of the Techa deposit] Mineralogo-petrograficheskoe opisanie Techenskogo mestorozhdeniya. Sverdlovsk, 1959. 156 p. (Akademiya nauk SSSR. Ural'skii filial, Sverdlovsk. Gorno-geologicheskii institut. Trudy, no. 45) (MIRA 13:4)

1. Zaveduyushchiiy laboratoriyey geokhimii i mineralogii Gorno-geologicheskogo instituta Ural'skogo filiala AN SSSR (for Ovchinnikov). (Techa region (Chelyabinsk Province)--Petrology)

DUNAYEV, V.A.

Techenskoye iron ore deposit in the Central Urals. Trudy Gor.-geol.
inst. UFAN SSSR no. 32:171-188 '59. (MIRA 14:5)
(Chelyabinsk Province—Iron ores)

DUNAYEV, V.A.

Formation of potash feldspars in volcanic enclosing rocks of the
Techenskoye skarn deposit. Trudy Gorn.-geol. inst. UFAI SSSR
no. 35:317-323 '60. (MIRA 14:1)
(Techenskoye region--Rocks, Igneous)

DUNAYEV, V., arkhitektor

Building the village of Kalinovka. Zhil. stroi. no.6:16-17 '59.
(MIRA 12:10)
(Kalinovka (Khomutovka District)--City planning))

3(8)

AUTHOR:

Dunayev, V. A.

307/7-59-3-9/13

TITLE:

On the Occurrence of Boron in Some Rocks of the Ural (O rasprostraneni bora v nekotorykh gornyykh porodakh Urala)

PERIODICAL:

Geokhimiya, 1959, Nr 3, pp 273-277 (USSR)

ABSTRACT:

The present investigation was carried out mainly for the purpose of checking previous data diverging from one another (Refs 1, 2, and 3). A spectrograph Q-24 was used for determination, a gauging sample was investigated by wet-chemical analysis by N. N. Durneva. The sensitivity of the method is somewhat below 0.0016%. The boron content was investigated in sediments (Table 1), igneous rocks (Table 2), and metamorphic rocks (Tables 3, 5) as well as in individual minerals, especially siderite (Table 4). Sediments contain up to 0.03%, and igneous rocks up to 0.01% boron. Metamorphic rocks have a higher boron content if they are in connection with skarn. There are 5 tables and 10 references, 9 of which are Soviet.

ASSOCIATION:

Gorno-geologicheskii institut Ural'skogo filiala Akademii nauk SSSR, Sverdlovsk (Mining-Geological Institute of the Ural Branch of the Academy of Sciences USSR, Sverdlovsk)

Card 1/3

DUMAYEV, V.A.

Datolite mineralization in skarn deposits of the Urals. Geol.
rud. mestorozh. no. 4:121-126 J1-Ag '59. (MIRA 13:1)

1. Gorno-geologicheskii institut Ural'skogo filiala AN SSSR, Sverdlovsk.
(Ural Mountains--Datolite)

DUMAYEV, V.A.

Garnets of the Techenskoye deposit. Trudy Gor.-geol. inst. UFAW
SSSR no. 35:27-37 '60. (MIRA 14:1)
(Techenskoye region--Garnet)

DUNAYEV, V.A.

Graphitization of carbonate rocks in the Bakal deposit. Trudy
Gor.-geol.inst. UFAN SSSR no.56:107-108 '61. (MIRA 15:7)
(Bakal region--Rocks, Carbonate)
(Graphitization)

DUNAYEV, V.A.; KLEVTSOV, Ye.I.

Conditions governing the datolite mineralization in one of the
iron-ore deposits, Trudy Inst. geol. UFAN SSSR no.70:111-119
'65. (MIRA 18:12)

DEM'YANOVSKIY, K.I.; DUNAYEV, V.D.

Truing the abrasive wheels of knife sharpening machines of the
TohN type. Der. prom. 12 no.10:7-8 O '63. (MIRA 16:10)

1. TSentral'nyy nauchno-issledovatel'skiy institut mekhanicheskoy
obrabotki drevesiny.

DEM'YANOVSKIY, K.I.; DUNAYEV, V.D.

Performance efficiency of abrasive wheels in sharpening planing
knives. Der. prom. 13 no.3s9-12 Mr'64 (MIRA 17:7)

DEM'YANOVSKIY, Konstantin Il'ich, kand. tekhn.nauk; ~~DUNAYEV~~,
Viktor Dmitriyevich, inzh.; KONDRATOVICH, N.Ye., red.

[Sharpening woodcutting tools] Zatochka derevorezhu-
shchikh instrumentov. Moskva, Lesnaia promyshlennost',
1965. 201 p. (MIRA 18:3)

IVANENKO, Ye.F. [Ivanenko, I.E.F.]; DUNAYEVA, V.F. [Dunaieva, V.F.]

The iso-electric point and solubility of cerebral proteins in the iso-electric zone following the inhibition of neural processes in the rat. Ukr. biokhim. zhur. 36 no.2:183-189 '64. (MIRA 17:11)

1. Department of Biochemistry of Kharkov Pharmaceutical Institute and A.A. Zhdanov State University, Leningrad.

DUNAYEV, V.F.

Method for evaluating the economic efficiency of seismic prospecting
for oil and gas. Izv. vys. ucheb. zav.; neft' i gaz 7 no.2:97-102
'64. (MIRA 17:10)

1. Moskovskiy institut neftekhimicheskoy i gazovoy promyshlennosti
im. akademika I.M. Gubkina.

ARBUZOV, B.A., akademik; VIZEL', A.O.; ZAIKONNIKOVA, I.V.; STUDENTSOVA, I.A.;
DUNAYEV, V.G.; ZVEREVA, M.A.; IVANOVSKAYA, K.M.

Organophosphorus compounds of low toxicity. Dokl. AN SSSR 165
no.1:91-94 N '65. (MIRA 18:10)

1. Institut organicheskoy 'himii AN SSSR, Kazan', i Kazanskiy
gosudarstvennyy meditsinskiy institut.

AUTHORS: Dunayev, V. G., Litvakovskiy, A. A. 72-58-3-4/15

TITLE: New Method of Selecting Refractory Materials for Glass
(Novyy metod podbora ogneporov k steklu)

PERIODICAL: Steklo i Keramika, 1958, , Nr 3, pp. 13-16 (USSR)

ABSTRACT: Refractory materials are to be considered as non -conductors at normal temperature, whereas their electric conductivity increases with heating, which is due to atomic and ionic processes. Comparing the properties of glass and of refractory materials, it is assumed that their interaction may be considered to a great extent as an electrochemical process which is further explained by an example. ~~Plumat~~ carried out an investigation on the electromotive force occurring at the phase-limits in some electrolytic circuits - in the Central Laboratory of the Association of Mechanized Glassworks in Belgium. The results of his electrochemical method of investigation of the processes taking place at the contact between some oxides and glass- and salt-melts at high temperature, are

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New Method of Selecting Refractory Materials for Glass

72-58-3-4/15

of great interest in this context. It was found that the potential differences measured between pure oxides and molten window-glass at 1000°C attained several tenth parts of a volt. The polarity of the oxide electrode changes in this case, as e.g. SiO_2 , Al_2O_3 , ZrO_2 show a positive polarity under these conditions, but MgO , CaO , BaO show a negative polarity. Consequently, refractory materials can, dependent on the conditions, take over the role of positive or negative electrodes in the system of refractory material-glass, which leads to a variable corrosion process: refractory material in form of a cathode is destroyed much more slowly than in form of an anode (Terminology according to GOST 5272-50). From a computation based on the values by ~~Fluxat~~ carried out by the authors, follows that a greater intensity of corrosion corresponds to a greater potential difference (table 1). Further the tests carried out by the authors are fully described. The test results with the determination of the electromotive force in the system Pt-glas-refractory material -Pt at 1290° , are given in table 2. As results from this, an increase in the strength of material corresponds to the decrease of the potential difference between refractory materials and glass. The

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New Method of Selecting Refractory Materials for Glass

72-58 -3-4/15

authors are of opinion that this method may be useful in
view of selecting refractory materials for various melts.
There are 2 tables.

1. Refractory materials--Test methods

Card 3/3

Dunayev, V. G.

15(2)
AUTHORS:
Zelinska, D. V., Piter, M. Ya., Kozlov, V. V., Chibrikova,
V. I., Dunayev, V. G.

TITLE:
The Influence of Thermal Preparation of the Charge on Glass
Frits

PERIODICAL:
Steklo i keramika, 1959, No. 9, pp. 21-27 (USSR)

ABSTRACT:
In the years 1952-1954, the Narkhizy Gorky Institute (Moscow
Glass Institute) has been working with the Gorky Glassworks carried
out a series of experiments on the thermal preparation of glass charges
(Preheating). Experiments on the melting of the sintered charge
in a glass-melting furnace were carried out at the
Gorky Glassworks, and experiments on comparative melting com-
paring the initial and the sintered charge were carried out at
the laboratory of the first Kufra silicate plant of the
Narkhizy Gorky Institute (Chair for Glass Technology and
Glass of the Belorussian Polytechnic Institute) at the In-
stitute for Glass-Making, as well as at the test plant of the
Belorussian Glass Institute (Preheating). It was estab-
lished that the melting time of the sintered charge demands as
little as the melting time of the initial charge (Fig. 1), as well as on the temper-

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ature of the sintered charge (Fig. 2). It may be seen from
Figure 2, that the melting time of the sintered charge is considerably
shorter than the melting time of the initial charge. The
melting time of the initial and the sintered charges is shown
in Table 1. As may be seen from Figure 7, the maximum furnace
temperature was 1550°. The chemical analysis of the glasses
from the sintered and initial charge are shown in Table 2. Ex-
periments showed that at furnace temperatures of from 1550 to
1450°, the entire melting and the refining of glasses from the
sintered charge afford better results as compared with the
initial charge. Moreover, at equal charge weight, 20% more glass
is obtained from the sintered charge than from the initial
charge. The chemical analysis of the glasses from the sintered
charge is shown in Table 3. By using a sintered
charge, the furnace output can be increased by 25-30%, and by
using a hot charge (at 800-900°), it can be increased by
55-60%, and the time of vitrification and refining can also be
considerably reduced. According to indications of Professor
E. V. Bolotin (Preheating), the furnace campaign can be
considerably lengthened by using a sintered charge. According

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to indications of Professor E. V. Bolotin (Preheating), the
efficiency of such a glass-melting plant can also be considerably
increased. Conclusions drawn by experiments on the thermal pre-
heating of glass charges are of great interest for the
industry. To utilize all the advantages of this process,
the economic viewpoint should also be considered. There are
7 figures, 3 tables, and 3 references, 3 of which are Soviet.

Card 3/3

GOR'KOVA, S.A.; DUNAYEV, V.O.; MATROSOVA, V.R.; NAUMOVA, Ye.K.; STUJENTSOVA, I.A.

Comparative characteristics of the biological and antimicrobial effect of armin and its chlorinated analogue. Nauch. trudy Kaz. gos. med. inst. 14:151-152 '64. (MIRA 18:9)

1. Kafedra mikrobiologii (zav. - dotsent Z.Kh.Karimova), kafedra farmakologii (zav. - dotsent T.V.Raspopova) Kazanskogo meditsinskogo instituta i kafedra organicheskoy khimii (zav. - prof. A.I.Razumov) Kazanskogo khimiko-tekhnologicheskogo instituta.

VIZEL', A.O.; ZVEREVA, M.A.; IVANOVS KAYA, K.M.; STUDENTSOVA, I.A.; DONAYEV, V.G.;
BERIM, M.G.

Synthesis and certain properties of phosphacyclopentene derivatives.
Dokl. AN SSSR 160 no.4:826-828 F '65.

(MIRA 18:2)

1. Institut organicheskoy khimii AN SSSR i Kazanskiy meditsinskiy
institut.

ACC NR: AP6012027

DUMAYEV, V.I. (Moskva)

Invariance principle in combined control systems with interdependent quantities. Izv. AN SSSR. Utd. tekhn. nauk. Energ. i avtom. no.5:127-135 8-0 '59.

(MIRA 13:1)

(Automatic control)

DUNAYEV, V.I.; GEL'FENBERG, Ye.Yu.

Removal of the finished product from plate mills. Prokat.
proizv. no.2:118-125 '60. (MIRA 14:11)
(Rolling mills--Equipment and supplies)

KRAUZE, G.M., inzh.; DUNAYEV, V.I.; inzh.

New types of pull-over gear on rolling mills. Stal' 22 no.3:252-
254 Mr '62. (MIRA 15:3)
(Rolling mills--Equipment and supplies)

TER-OGANESOV, V.; DUMAYEV, V.M.. redaktor; BITSSENKO, M.A., tekhnicheskii
redaktor

[Solar and lunar eclipses] Solnechnye i lunnye zatmeniya. Iss.3,
dop., perer. Moskva, Gos. izd-vo kul'turno-prosvetitel'noi lit-ry,
1954. 124 p. [Microfilm] (MLRA 7:10)
(Eclipses, Lunar) (Eclipses, Solar)

BOGORYAVLENSKIY, G.P.; ~~DUMAYEV, V.M.~~; MEDOSHEIN, D.V., Prinsipaliuchastiye:
GALITSKIY, V.A.; GRIN, N.V., kand.ekonom.nauk, nauchnyy red.;
ZABELIN, I.M., kand.geograf.nauk, nauchnyy red.; SAMSONENKO, L.V.,
nauchnyy red.; FRANKIN, N.G., kand.geograf.nauk, nauchnyy red.;
MAL'CHENSKIY, G.M., red.kart; GLNYKH, D.A., tekhn.red.

[The earth and its people; a geographical calendar for 1959]
Zemlia i liudi; geograficheskiy kalendar', 1959. Moskva, Geo-
grafiz, 1958. 390 p. (MIRA 12:3)
(Geography)

BOGOTAVLENSKIY, G.P.; DUMAYEV, V.M.; MEDOSKIN, D.V.; DANILOVA, M.A.,
avtor kart; KEMMERIKH, A.O., avtor kart. Prinimel uchastiye
GALITSKIY, V.A.. GRIN, M.P., kand.ekonom.nauk, nauchnyy red.;
ZABELIN, I.M., kand.geograf.nauk, nauchnyy red.; SAMSONENKO,
L.V., nauchnyy red.; FRANKIN, N.O., kand.geograf.nauk, nauchnyy
red.; MAL'CHUTSKIY, G.N., red.kart; BELICHENKO, R.K., mladshiy
red.; GLUYKH, D.A., tekhn.red.

[The earth and the people; geographical calendar for 1960] Zemlia
i liudi; geograficheskiy kalendar' 1960. Moskva, Geografiz,
1959. 381 p. [___ Seasonal phenomena in U.S.S.R. nature] Seson-
nye yavleniya v prirode SSSR. Sost. M.A. Danilova, A.O. Kemmerikh.
12 maps. (MIRA 13:3)

(Geography--Dictionaries)

(Calendars)

DUMAYEV, V. P.

"A Comparative Histological-Experimental Investigation of the
Human Eyelid." Cand Biol Sci, Acad of Medical Sci, USSR, 7 Oct 54.
(VII, 27 Sep 54)

SO: Sum 432, 29 Mar 55

DUNAYEV, Vladimir Pavlovich; ABRAMOV, L.S., red.; KONOVALYUK, I.K.,
mladshiy red.; VILENSKAYA, E.N., tekhn.red.

[The northernmost; geographical study of the transpolar city
of Noril'sk] Sanyi severnyi; geograficheskiy ocherk o zapoliarnom
gorode Noril'ske. Moskva, Gos.isd-vo geogr.lit-ry, 1960. 71 p.
(MIRA 13:5)

(Noril'sk--Economic conditions)

DUNAYEV, Vladimir Pavlovich; ORLOV, Dal' Konstantinovich; SEMENOV, S.M.,
red.; GOLICHENKOVA, A.A., tekhn. red.

[The Ivanovo millions] Ivanovskie milliony. Moskva, Izd-vo
VTsSPS Profizdat, 1960. 91 p. (MIRA 14:8)
(Ivanovo Province--Textile industry)
(Socialist competition)

DUNAYEV, V.S.; FINKEL', A F., nauchn. red.

[Assembling the engineering equipment of rolling mills]
Montazh tekhnologicheskogo oborudovaniia prokatnykh tse-
khov. Moskva, Stroiizdat, 1964. 295 p. (MIRA 17:9)

LYAPKOV, P.D.; DUNAYEV, V.V.

Results of testing the EN-160-800 pump in a well with a free-gas
drive. Neft. khos. 38 no.12:48-51 D '60. (MIRA 14:4)
(Oil well pumps—Testing)

DUNAYEV, V.V.

Lifting fluid with gas in wells equipped with sinking electric
pumps. Nauch.-tekhn. sbor. po dob. nefti no.17:76-82 '62.
(MIRA 17:8)

SHEKHTER, Yu.N.; DUNAYEV, V.V.

Overalkalization steam refining, and centrifugation in the production of oil soluble sulfonates. Khim.i tekhn.topl.i masel 7 no.4:29-33 Ap '62. (MIRA 15:4)

1. Moskovskiy zavod "Neftegaz".
(Lubrication and lubricants--Additives) (Sulfonic acids)

DUNAYEV, V.V.; SANOTSKIY, V.A., prof. nauchnyy rukovoditel'

Effect of citrin on the permeability of the histo-hematologic barrier of the spleen after a single administration of polonium 210 into the body. Med. rad. 8 no.9:53-55 8'63. (MIRA 1714)

1. Chlen-korrespondent AN SSSR (for Sanotskiy).

DUNAYEV, V.V.; KRYLOV, Yu.F.

Distribution of spofadazin in the body of white rats. Farm. i toks.
29 no.3:321-323 My-Je '65. (MIRA 29:8)

1. Nauchnyye rukovoditeli - chlen korespondent AMN SSSR prof. V.A.
Sanotskiy (Moskva) i dotsent A.A.Nikulina (Kazan').

PIL'SHCHIKOV, A.I.; DUNAYEV, N.M.; SEDLETSKAYA, N.S.

Magnetostatic fluctuations of magnetization in a hollow ferrite cylinder. Radiotekh. i elektron 7 no.7:1123-1129 '62.

(MIRA 15:6)

1. Fizicheskiy fakul'tet Moskovskogo gosudarstvennogo universiteta imeni Lomonosova, kafedra radiotekhniki.
(Cores (Electricity)) (Ferrites)
(Microwaves)

DUNAYEV, V.Ya., insh.; SAFONOV, K.Ye., insh.

Technical and economic indices for the winning of milled peat using various degrees of mechanization. Torf.prom. 35 no.2:13-16 '58.
(MIRA 11:5)

1. Leningradskoye gorodskoye otdeleniye Gosudarstvennogo instituta po proyektirovaniyu promyshlennykh predoriyatiy po pererabotke i dobyche torfa.
(Peat)

DUNAYEV, Ye. K.

Drugstores

Struggle for improvement in the work of pharmacies. Apt delo no 1, 1962

Monthly List of Russian Accessions, Library of Congress, November 1952, Unclassified

DUMAYEV, Ie.S.; YEFERMOV, S.A.; RYBIN, S.N., redaktor

[Manual for making estimates on major construction work] Spravochnoe
posobie po sostavleniyu smet na kapital'noe stroitel'stvo. Pod red.
S.N.Rybina. Moskva, Gos. izd-vo lit-ry po stroitel'stvu i arkhitek-
ture, 1954. 514 p. (MLRA 10:2)

(Building--Estimates)

$\alpha^*(s), \beta^*(s)$

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DUNAYEV, YE. S.

INTERVIEW. Interview conducted on 12/12/2013. Interview conducted on 12/12/2013.

Numerous pamphlets about chemical disarmament had long been widely available in the Soviet Union. In 1928, for example, the Soviet Union published a book entitled "New Problems in International Criminal Law: Problems of Chemical Disarmament," by Professor N. S. Morozov, a leading Soviet expert on disarmament. The book was published by the Ministry of Foreign Affairs, and was one of the first Soviet books on disarmament. It was published in 1928, and was one of the first Soviet books on disarmament. It was published in 1928, and was one of the first Soviet books on disarmament.

[illegible]

Summary: This collection of articles is intended for party members of construction organizations, design bureaus, and scientific research organizations as well as for family members and students of institutions of higher education.

Contents: This collection of reports on construction problems was originally presented and discussed at a scientific-technical conference held in Moscow in February 1958 under the auspices of the Moscow Engineering School in Heavy Machine and other construction organizations. The articles in this collection of scientific and technical articles are of interest to all scientific organizations, particularly of engineering and planning scientific and capital investments. Particular attention is given to the problems of construction projects in various fields of construction and design. Construction projects are reduced, limits of expansion and building operations to increase the productivity of construction, and lower level construction with a minimum economic efficiency of labor, and a more rapid and planning efficiency are analyzed. Problems in preparing estimates, saving financial resources, and planning construction projects are discussed. The references are given.

Author: W. J. Macdonald, and H. J. Macdonald, Specifier Features and Ways of Improving Construction Cost Estimates of Hydraulic Structures

Editor: J. A. Development of Technical Standardization and Post-Completion of Improving Technical Standards

Shawyer, Lo, & Price Collection Problem

Blidiss, R. E. Improvement of Standardized Estimates and the Factors of Pricing Estimates for Construction Projects

**University, D. L. North/Coles of Learning Goals of Postgraduate
Enriched Concrete Structures**

Wilson, J. B.—Application of Correlation Methods to the Study of the Economic Activities of Construction Organizations

James, B. Ya. **Essential Accountability in Construction Works**

11/6 1941

5. The following table shows the number of people who have been convicted of a crime in the United States since 1970. The number of people convicted is given in thousands.

1. The first step is to identify the problem or question that needs to be answered. This involves understanding the context and the specific requirements of the task.

100

[illegible]

11. *Quadrant 1* (top right) is the area of high performance and high risk. It is the area where the organization is most likely to be successful, but it is also the area where the organization is most likely to be overextended. The organization should focus on this area and ensure that it has the resources and capabilities to manage the high risk.

1. *Journal of the American Medical Association*, 1997; 278: 1039-1044.

DUNAYEV, Ye.S., insh.; MEMIROVSKIY, M.I.

Special problems and improved methods for estimating construction costs of hydroelectric power stations. Trudy MNI
no.14:483-508 '59. (MIRA 13:1)

1. Gidroenergoprojekt.
(Hydroelectric power stations) (Building--Estimates)

DUNAYEV, Ye.B., insh.

Some problems in estimating costs of hydraulic structures.

Gidr.stroi, 29 no.3:16-23 Mr '60. (MIRA 13:6)

(Hydroelectric power stations) (Building--Estimates) \

MALYUGIN, V.I.; YEFREMOV, S.A., kand. tekhn. nauk; REYNIN, S.N.;
BUKSHTEYN, D.I.; DUNAYEV, Ye.S.; KIL', A.Kh.; KRAKOVICH,
A.A.; FILIMONOV, S.Ye.; PETROV, I.A., prof., doktor
tekhn. nauk, nauchn. red.; GIROVSKIY, V.F., prof., doktor
ekon. nauk, nauchn. red.; GERASIMOVA, G.S., red. izd-va;
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